

Title (en)

PENAM DERIVATIVES FOR TREATING BACTERIAL INFECTIONS

Title (de)

PENAM-DERIVATE ZUR BEHANDLUNG BAKTERIELLER INFEKTIONEN

Title (fr)

DÉRIVÉS DE PENAM POUR LE TRAITEMENT D'INFECTIONS BACTÉRIENNES

Publication

**EP 4028404 A2 20220720 (EN)**

Application

**EP 20862212 A 20200825**

Priority

- US 201962898598 P 20190911
- IB 2020000686 W 20200825

Abstract (en)

[origin: US11040987B2] Novel iron chelating group conjugated penam derivatives described herein show antibacterial activity, and could be used as antibacterial agents or beta-lactamase inhibitors (BLIs) which are of value for application in combination with other antibacterial agents.

IPC 8 full level

**C07D 499/00** (2006.01); **A61K 31/431** (2006.01); **A61P 31/04** (2006.01)

CPC (source: EP US)

**A61K 31/43** (2013.01 - US); **A61K 31/431** (2013.01 - US); **A61K 31/4439** (2013.01 - US); **A61K 31/454** (2013.01 - US);  
**A61K 31/455** (2013.01 - US); **A61K 31/496** (2013.01 - US); **A61K 31/497** (2013.01 - US); **A61K 31/506** (2013.01 - US);  
**A61K 45/06** (2013.01 - US); **A61P 31/04** (2017.12 - EP US); **C07D 499/87** (2013.01 - EP US); **C07D 519/06** (2013.01 - EP US)

Designated contracting state (EPC)

AL AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL PT RO RS SE SI SK SM TR

Designated extension state (EPC)

BA ME

DOCDB simple family (publication)

**US 11040987 B2 20210622**; **US 2021070774 A1 20210311**; CN 114423766 A 20220429; CN 114423766 B 20240517; EP 4028404 A2 20220720;  
EP 4028404 A4 20230726; JP 2022548067 A 20221116; WO 2021048613 A2 20210318; WO 2021048613 A3 20210520;  
WO 2021048613 A8 20220512

DOCDB simple family (application)

**US 202017001764 A 20200825**; CN 202080062847 A 20200825; EP 20862212 A 20200825; IB 2020000686 W 20200825;  
JP 2022516222 A 20200825